

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 85-59

WASTE DISCHARGE REQUIREMENTS FOR:

U. S. ARMY CORPS OF ENGINEERS (SAN FRANCISCO DISTRICT),
MARIN COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT,
ROBERT THOMPSON AND TISCORNIA ESTATE COMPANY,
DREDGE MATERIAL DISPOSAL, LARKSPUR, MARIN COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (the Board) finds that:

1. The U. S. Army Corps of Engineers, San Francisco District (the discharger) submitted a Report of Waste Discharge dated March 21, 1985.
2. The discharger proposes to redredge the Corte Madera Creek Flood Control Channel between the creek mouth and the northern boundary of the College of Marin, a distance of about 3.4 miles. The purpose of the dredging project is to restore the capacity of the flood control channel for Corte Madera Creek. The channel, originally dredged in the period 1968-1972, has experienced siltation in the lower reaches and culvert blockages elsewhere. The overall project would restore dredged, channel contours in Unit 1, Unit 2 and part of Unit 3 of the channel.
3. Of the estimated 450,000 cubic yards of dredged sediment, the discharger proposes to place up to 160,000 cubic yards on an upland disposal site adjacent to the creek. (The remainder would be transported to an approved aquatic disposal site for disposal). A hydraulic suction pipeline or clamshell barge would be used to remove dredged sediments and transport them to the upland site. The site will be diked to retain dredged materials. Effluent from the disposal site will be controlled by weirs at five locations and discharged to a small slough 200 to 400 feet south of Corte Madera Creek (Attachment A). Overflow will be discharged at a maximum rate of 1.9 million gallons per day (MGD).

4. The upland site is located between Magnolia Avenue and Corte Madera Creek in Larkspur. It is known as the Escalle property and is owned by the Tiscornia Estate Company. The site is 26 acres in size and is mostly uplands, having received fill material in the past. The project would avoid existing tidal wetlands but would eliminate any seasonal freshwater wetlands on the site. The Department of Fish and Game has identified minor amounts of seasonal wetland vegetation on the property. The Department does not oppose the project but seeks on-site mitigation for any wetland loss. The Department can seek such mitigation during the review of development plans for the property.
5. The Board, in July 1982, adopted a Water Quality Control Plan for the San Francisco Bay Basin. The Plan contains water quality objectives for Corte Madera Creek and Central San Francisco Bay.
6. Beneficial uses of Corte Madera Creek and Central San Francisco Bay include:
 - a. Industrial Process Supply (Bay only)
 - b. Industrial Service Supply (Bay only)
 - c. Navigation (Bay only)
 - d. Water Contact Recreation (both)
 - e. Non-Contact Water Recreation (both)
 - f. Ocean Commercial and Sport Fishing (Bay only)
 - g. Warm Fresh Water Habitat (Creek only)
 - h. Cold Fresh Water Habitat (Creek only)
 - i. Wildlife Habitat (both)
 - j. Preservation of Rare and Endangered Species (both)
 - k. Fish Migration (both)
 - l. Fish Spawning (both)
 - m. Shellfish Harvesting (Bay only)
 - n. Estuarine Habitat (Bay only)
7. The discharger sampled bottom sediments in Corte Madera Creek for the proposed dredging area in March, 1984. The results indicate no organic chemicals or trace metals in excess of state water quality control standards.
8. The discharger has prepared an Environmental Assessment (EA) of the dredging project, including upland disposal at the Escalle property (revised EA, March 1985). The EA satisfies federal law concerning environmental impact assessment (National Environmental Policy Act) and therefore complies with the California Environmental Quality Act (Public Resources Code, Section 2100 et. seq.).

9. The March 1985 EA identifies Corte Madera Creek as an anadromous fish run for steelhead trout. Adult steelhead migrate up the creek to spawn between December and April; steelhead fry move downstream the following April-June. To mitigate possible dredging impacts on steelhead migration, the EA proposes that dredging (including upland disposal and return flow) be limited to daylight hours during the months of June through December. Corte Madera Ecological Reserve (Heerdt Marsh) is located south of the creek mouth, and several endangered/threatened species may be present in the project area. The EA concludes that dredging impacts will be temporary and not significant to this habitat area if normal water quality standards are met (e.g. pH between 7.0 and 8.5, dissolved oxygen above 5.0 mg/l, and settleable matter less than 1.0 ml/l-hr).
10. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
11. The Board, in a properly-noticed public meeting, heard and considered all comments pertaining to the proposed discharge.

IT IS HEREBY ORDERED, pursuant to the provisions of Division 7 of the California Water Code and its implementing regulations, that the discharger and above-named persons shall comply with the following provisions:

A. Prohibitions

1. Overflow from the land disposal site to Corte Madera Creek is prohibited during the period from January 1 to May 31 and during evening hours for the remainder of the year.
2. The berms around the land disposal site shall be constructed so as to contain the dredged material at all times. A discharge of the return flow from the disposal site at any other point than that shown in Attachment A is prohibited.

B. Effluent Limitations

1. The wastewater overflow as discharged to waters of the State from the land disposal area shall meet the following quality limits at all times:
 - a. Settleable matter 1.0 ml/l-hr, maximum
 - b. pH 6.5 minimum, 8.5 maximum

C. Receiving Water Limitations

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The disposal of waste or wastewater return flow shall not cause:
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam in waters of the State at any place more than 100 feet from the point of discharge of return flow;
 - b. Bottom deposits or aquatic growths in waters of the State at any place;
 - c. Discoloration beyond present natural background levels in waters of the State at any place more than 100 feet from the point of discharge of return flow;
 - d. Visible floating, suspended, or deposited oil or other products of petroleum origin in waters of the State at any place;
 - e. Waters of the State to exceed the following limits of quality at any point:

Dissolved Oxygen 5.0 mg/l minimum

When natural factors cause lesser concentrations, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.

pH

A variation from natural ambient pH by more than 0.5 pH units.

3. The turbidity of the waters of the State at any point beyond 200 feet from the point of discharge of the return flow to increase above background levels by more than the following:

<u>Receiving Water Background</u>	<u>Incremental Increase</u>
<50 units	5 Units, maximum
50-100 units	10 Units, maximum
>100 units	10% of Background, maximum

D. Provisions

1. Return flow to waters of the State shall cease immediately whenever violations of requirements are detected by the self-monitoring program and flow shall not resume until alternative methods of compliance are provided.
2. The discharger shall comply with all sections of this Order immediately upon commencement of land disposal operations and overflow.
3. The discharger shall comply with the Self-Monitoring Program as adopted by this Board and as may be amended by the Executive Officer.
4. The discharger shall file a report on waste discharge at least 120 days before making any material change or proposed change in the character, location, or volume of the discharge.
5. The discharger shall permit the Regional Board:
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept,
 - b. Access to copy any records required to be kept under terms and conditions of this Order,
 - c. Inspection of monitoring equipment or records, and

d. Sampling of any discharge.

6. The Board will review this Order periodically and may revise the requirements when necessary. Unless revised, these requirements will expire after three years.

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full true, and correct copy of an order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on May 15, 1985.

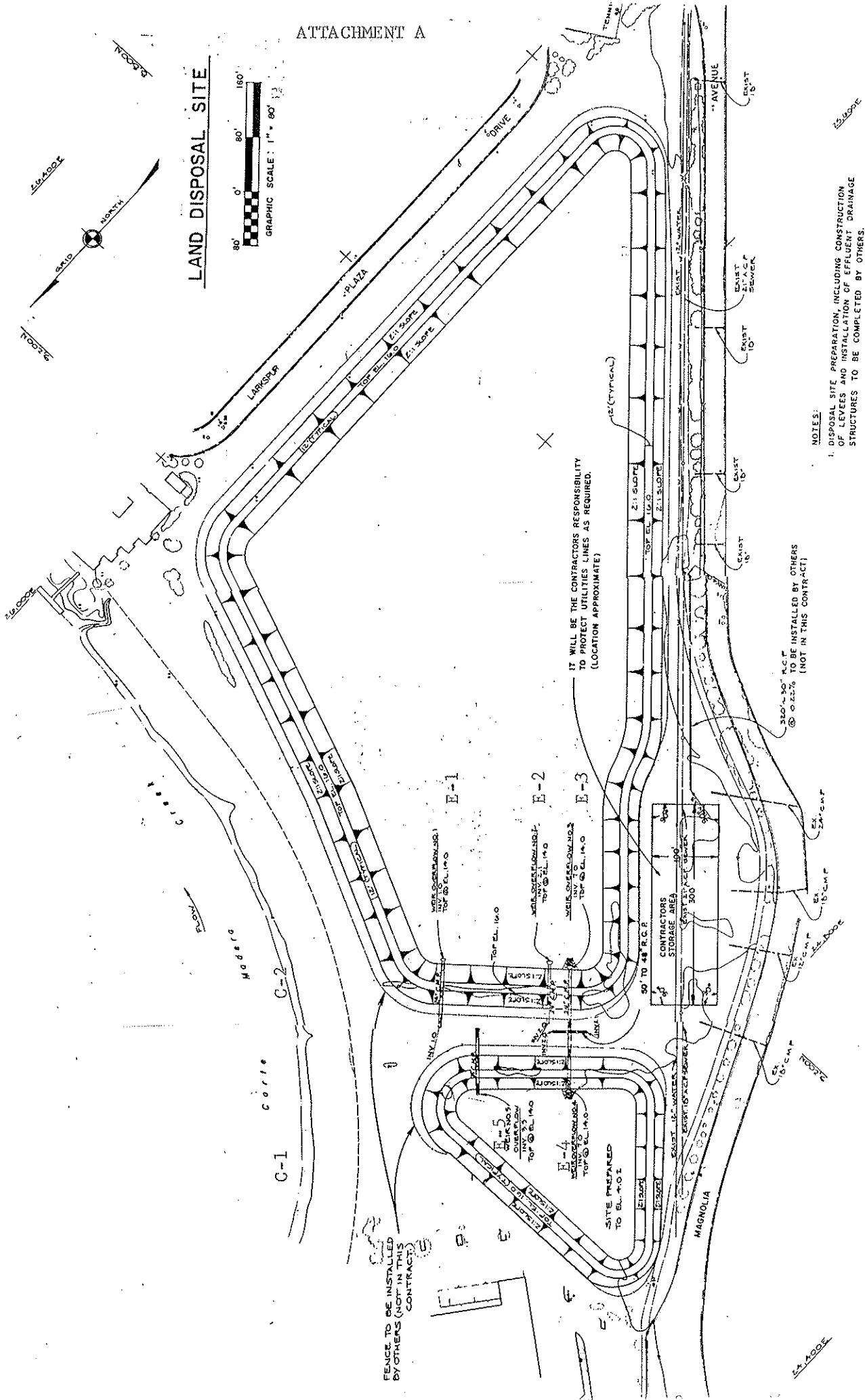
ROGER B. JAMES
Executive Officer

Attachments:

Map
Self-Monitoring Program

80' 0' 80' 160'

GRAPHIC SCALE: 1" = 80'



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

U. S. Army Corps of Engineers, et. al.

Land Disposal of Dredge Spoils

Escalle Property, Larkspur, Marin County

ORDER NO. 85-59

CONSISTS OF

PART A

AND

PART B

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a self-monitoring program by a waste discharger are:

1. To document compliance with waste discharge requirements and prohibitions established by this Regional Board,
2. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge,
3. To develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and
4. To prepare water and wastewater quality inventories.

PART A: DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING, ANALYSES, AND OBSERVATIONS

This self-monitoring report incorporates the definitions and procedures of the Board's January 1978 Part A document, except for items C.4, D.1, D.2, E and F.

1. Effluent Sampling

<u>Station</u>	<u>Location</u>
E-1	The point at which wastewater from the land disposal site overflows weir 1.
E-2	Point of overflow from weir 2.
E-3	Point of overflow from weir 3.
E-4	Point of overflow from weir 4.
E-5	Point of overflow from weir 5.

<u>Station</u>	<u>Type of Sample and Frequency</u>	<u>Analyses</u>	<u>Units</u>
All E Stations	Grab sample during the last hour of dredging each day, daily throughout the project's duration when overflows occur.	Settle- able Matter pH	ml/l-hr units

2. Receiving Water Sampling and Observations

<u>Station</u>	<u>Location</u>
C-1	200 feet upstream from the point where disposal site overflow enters Corte Madera Creek.
C-2	100 feet downstream from the point where overflow enters Corte Madera Creek.

<u>Station</u>	<u>Type of Sample & Frequency</u>	<u>Analyses</u>	<u>Units</u>
All C Stations	Grab samples shall be taken during periods of overflow and collected twice weekly at ebb tide (shortly before low tide).	Dissolved Oxygen pH (elec- trometric) Turbidity Standard Observations	mg/l units JTU

Standard Observations include:

- a. Floating and suspended materials of waste origin, (to include oil, grease, algae, and other macroscopic particulate matter) presence or absence, source, and size of affected area.
- b. Discoloration and turbidity: description of color, source, and size of affected area.
- c. Odor: presence or absence, characterization, source, and distance of travel.
- d. Time and height of low tides corrected to nearest location for the sampling date and time of sample and collection.
- e. Water and sampling depths.

3. Land Observations

Standard observations are to be taken weekly throughout the life of the project along the perimeter levee of the dredge disposal impoundment facility.

Standard observations include:

- a. Evidence of leaching liquid from area of confinement and estimated size of affected area. (Show any affected area on a sketch)
- b. Odor: Presence or absence, characterization, source and distance of travel.
- c. Evidence of low points in levee resulting in overflow of water other than described in Report of Waste Discharge. Low points shall be filled immediately with appropriate fill material.

PART B: REPORTS TO BE FILED WITH BOARD

1. Report by telephone to the Regional Board five days ahead of the scheduled date of commencement of dredging operation.

2. Violation of Requirements

In the event the discharger is unable to comply with the conditions of the waste discharge requirements and prohibitions due to:

- (a) Maintenance work, power failure, or breakdown of waste treatment equipment, or
- (b) Accidents caused by human error or negligence, or
- (c) Other causes, such as acts of nature,

the discharger shall notify the Regional Board Office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to prevent the problem from recurring.

3. Self-Monitoring Reports

Written reports shall be submitted regularly for each calendar week during dredging operations by Wednesday of the following week.

The reports shall be in letter form, and shall specifically cover each point in the Monitoring Program. Any violations shall be clearly identified, and actions taken or planned for correcting violations shall be included. Monitoring reports shall be signed:

- (a) In the case of corporations, by a principal executive officer at least at the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates, or
- (b) In the case of a partnership, by a general partner, or
- (c) In the case of a sole proprietorship, by the proprietor.
- (d) In the case of a public agency, by a principal executive officer, ranking elected official, or other duly authorized employee.

The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

- 1. Has been developed in accordance with the procedures set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 85-59.
- 2. Has been ordered by the Executive Officer on May 15, 1985 and becomes effective immediately.
- 3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

ROGER B. JAMES
Executive Officer

Attachment: Part A (January 1978)